



UNSW
SYDNEY

Australia's
Global
University

Built Environment

ARCH2170
Building Information Modelling



Course Outline – Term 1, 2020

Disclaimer

Information within this document is subject to change. The full and most accurate course outline will be available in Moodle closer to the start of the term in which the course is offered.

1. COURSE STAFF

Course Contact	Lan Ding
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2. COURSE DETAILS

Credit Points	6 units of credit (uoc)
Workload	Approx. 150 hours including class contact hours, weekly individual and group online learning activities, readings, class preparation, and assessment activities.
Teaching Times and Location	Find details in timetable http://www.timetable.unsw.edu.au

Description

The Building Information Modelling course introduces students to understand concepts and methods of Building Information Modelling (BIM), BIM standards and BIM-based design analysis. Students generate low carbon building design through Building Information Modelling (BIM) and environmental analysis, while applying advanced skills for documentation and visualisation of buildings. Students will carry out BIM-based analysis of low carbon building design to achieve optimal design solutions, and their performance will be evaluated with respect to their progressive work developed in preparation for or during the project activities..

Aims

1. The course will enable students to understand recent development in Building Information Modelling and be able to translate this knowledge into their own professional background.
2. Further students will gain hands-on modelling and analysis skills and are able to use a range tools to conduct BIM modelling and analysis work as well as team collaboration practices.

Course Learning Outcomes (CLOs)

At the successful completion of this course, you will be able to:

1. Explain concepts and methods of Building Information Modelling (BIM), BIM standards and BIM-based design analysis.
2. Apply advanced skills in Building Information Modelling (BIM) for the design, documentation and visualization of buildings.
3. Achieve low carbon design analysis through Building Information Modelling (BIM).
4. Foster team collaboration through a digital platform.

3. ASSESSMENT

Assessment task	Weight	CLOs Assessed
1. Quiz x 2	10%	1
2. Assignment 1: Building Information Modelling (BIM) Project	40%	2
3. Assignment 2: BIM for Low Carbon Design Project	50%	2, 3, 4

4. COURSE IMPROVEMENT AND FEEDBACK

Feedback from students is an integral part of improving courses and teaching approaches. One of the primary mechanisms of feedback is myExperience, which we strongly urge all students to complete at the end of term. Course convenors use the feedback to make ongoing improvements to the course. This is communicated in Moodle in the myFeedback Matters page.